GSTIN : 29AALFM0471E1ZA
PAN : AALFM0471E

Tel : 080-2321 5297
080-2318 5560

KUMAR ELECTRICALS

Super Grade Licensed Electrical Contractor

No. 8 (S), 1st Phase, 1st Stage, Chandra Layout, Vijayanagar, Bangalore - 560 040.

Website : www.kumarelectricals.co.in

Ref : KE/161A/2022-23

Date: 1-7-2022

TEST REPORT / WARRANTY CERTIFICATE

Product: 9Mtrs MS Swaged Tubular STREET Light Pole as Per IS Standard 410-SP-32.

Quantity: 80Nos.

Sl. No	9Mtrs MS Tubular Pole	Specified Dimension	Result
1	Height	90000	90000
2	Base Plate	300x300x6	300x300x6
3	Bottom Section	165.1x4.85x5000	165.1x4.85x5000
4	Middle Section	139.1x4.5x2000	139.1x4.5x2000
5	Top Section	114.3x3.65x2000	114.3x3.65x2000
6	Bracket	40x2.9x1500	40x2.9x1500
7	Paint	Silver	Silver

Terms and Conditions:

- All Dimension Are in MM.
- Products Are Warranted For 10Years.
- Paint Two Years Warranty.

For Kumar Electricals

Managing Partner

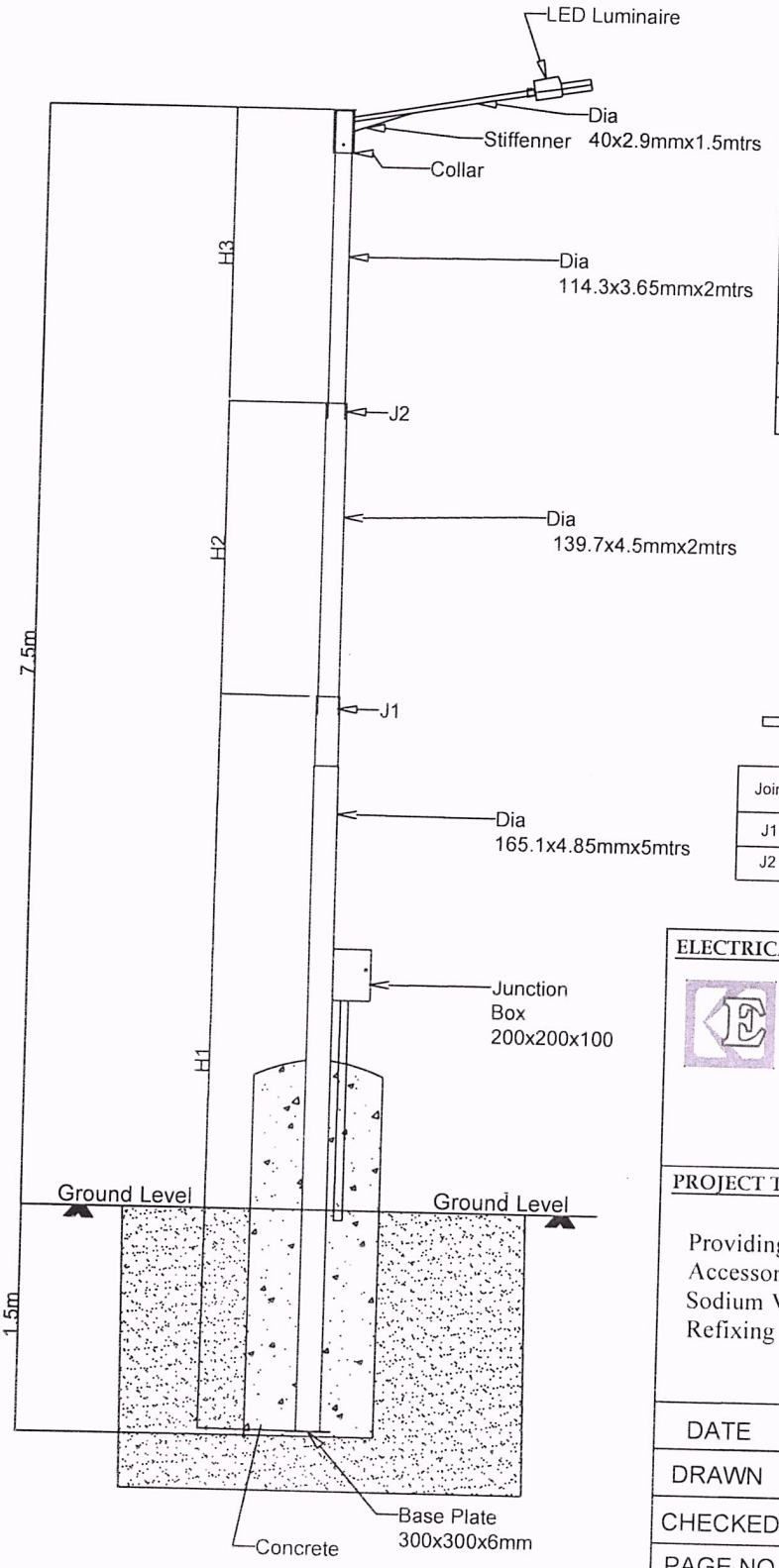


TABLE FOR DIMENSIONS

Make	M/S Kumar Electricals		
IS REF	410 SP 32		
Length (L)	9 Mtr		
Section Detail	DIA(mm)	Thick(mm)	Length(m)
H1 (Bottom)	165.1	4.85	5
H2 (Middle)	139.7	4.5	2
H3 (Top)	114.3	3.65	2
Bracket	40	2.9	1.5
Base Plate	300x300x6mm		
Ground Level	7.5m		

Swaged & Portion Detail

Circumferential Welding

Joint	Outside Dia Of Tubes in Joint (mm)	Length Of Joint (mm)
J1	165.1 to 139.7	350
J2	139.7 to 114.3	300

ELECTRICAL CONTRACTOR:-

M/S. KUMAR ELECTRICALS
#8(S), Ist Stage, Ist Phase,
Chandralayout, Vijayanagar
Bengaluru-560 040

Contractor Signature

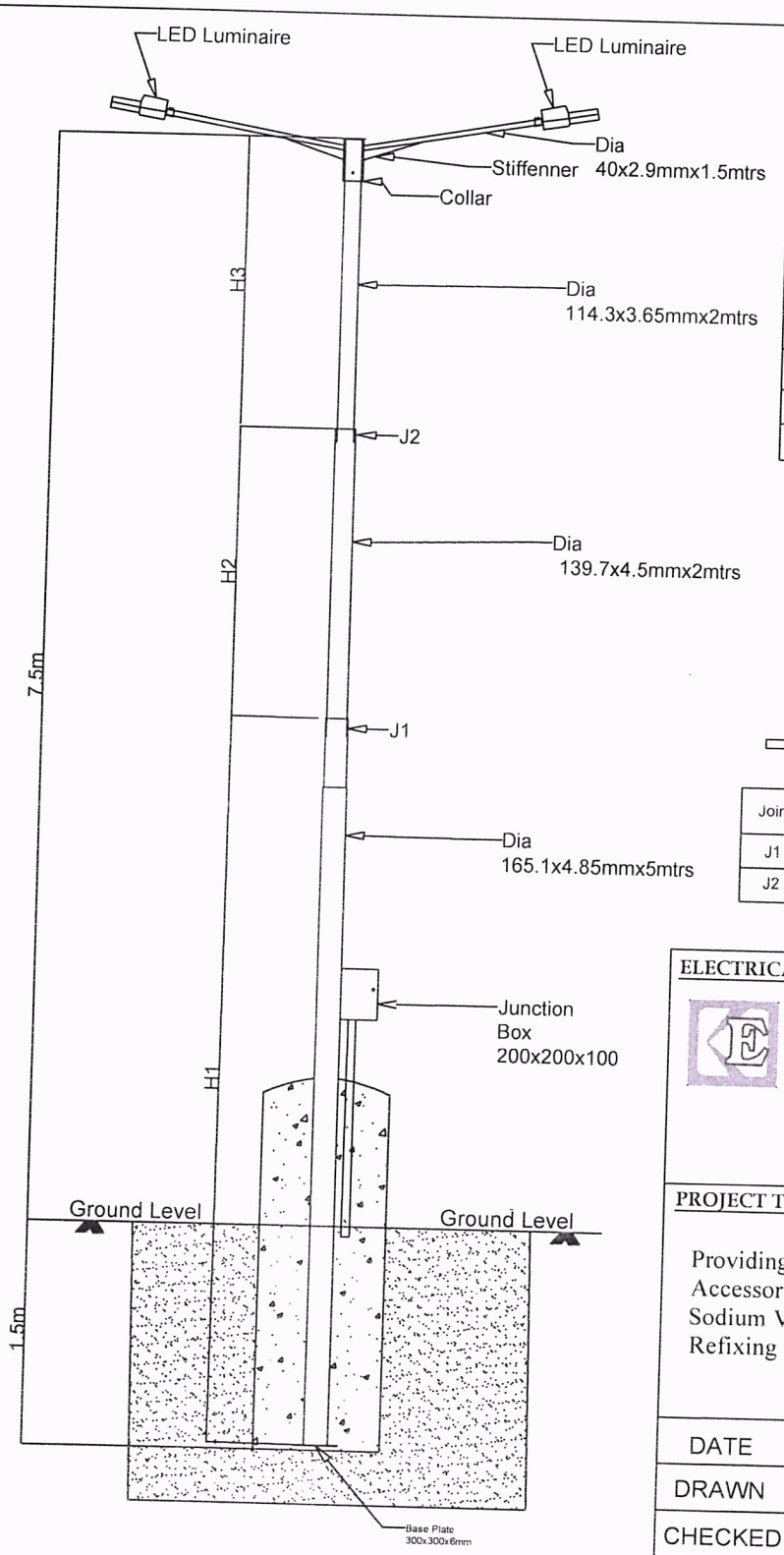
PROJECT TITLE :-

Providing LED Street Light Fitting With Connected Accessories in Ward no-16,17,37 & Releasing of Existing Sodium Vapour Lights From Ward No- 16,17,37 & Refixing at ward no-129&73 under R.R. Nagar Zone.

DATE	01:07:2022
DRAWN	VHV
CHECKED	RVR
PAGE NO	1

DRAWING TITLE :-

Street Light Tubular Pole With Single Bracket



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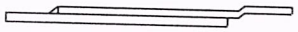
IS REF	410 SP 32		
Length (L)	9 Mtr		
Section Detail	DIA(mm)	Thick(mm)	Length(m)
H1 (Bottom)	165.1	4.85	5
H2 (Middle)	139.7	4.5	2
H3 (Top)	114.3	3.65	2
Bracket	40	2.9	1.5
Base Plate	300x300x6mm		
Ground Level	7.5m		

Swaged & Portion Detail

Circumferential Welding



Joint	Outside Dia Of Tubes in Joint (mm)	Length Of Joint (mm)
J1	165.1 to 139.7	350
J2	139.7 to 114.3	300

ELECTRICAL CONTRACTOR:-

M/S. KUMAR ELECTRICALS
#8(S), Ist Stage, Ist Phase,
Chandralayout,Vijayanagar
Bengaluru-560 040

Contractor Signature

PROJECT TITLE :-

Providing LED Street Light Fitting With Connected Accessories in Ward no-16,17,37 & Releasing of Existing Sodium Vapour Lights From Ward No- 16,17,37 & Refixing at ward no-129&73 under R.R. Nagar Zone.

DATE	01:07:2022
DRAWN	VHV
CHECKED	RVR
PAGE NO	2

DRAWING TITLE :-

Street Light Tubular Pole With Double Bracket

JINDAL PIPES LIMITED

Manufacturer's Test Certificate

TRADE MARK ☆ JINDAL STAR

Plot No. 30, Institutional Sector-44
Gurgaon - 122002, Haryana (India)
Phone : 91-124-4624000, 2574325 / 26, 2574620 / 21
Fax : 91-124-2574327

ISO 9001 BUREAU VERITAS Certification

REV. NO. : 001
Q.C.F. NO. : 30A

M/s.	Specification IS:1239(PT–I)_2004	Certificate No. : QC/20035/22/AD
PIPE CORPORATION PRIVATE LIMITED 6/3, 4TH CROSS, LALBAGH ROAD, K.S. GARDEN, **BANGALORE-560027**	Manufacturing Process : E.R.W.	Date : 11/04/2022 Challan No. : 403222300109 Date : 11/04/2022
P.O. No.		W.O. No.

We certify that the material described below fully confirms to.. ...IS:1239(PT.–I)_2004..... ..Chemical Composition & Mechanical Properties of Product tested in accordance with Scheme of Testing & Inspection contained in the BIS Licence No..... CM/L – 6442163

Description MS ERW PIPES IN LENGTH OF 5.01 – 6.20 MTRs CONFORMING TO IS:1239(PT – I)_2004

SIZE	S.NO.	CAST NO	LOT NO.	CHEMICAL COMPOSITION					MECHANICAL PROPERTIES			FLATT-ENING/ BEND TEST	ZINC COATING		MATERIAL QUANTITY		Dent Test
				Max C%	Max. Mn%	Max. S%	Max. P%	CE%	Min. Y.S MPa	Min. T.S. MPa	Min. %EL		WEIGHT Gms./m²	Uniformity	No. of Pipes	Meters	
				0.200	*1.300*	*0.040*	*0.040*			*320*	*12/20*						
125 X M X BK X PE	1	C462317	224	0.060	0.390	0.015	0.014	NA	-	381	32.50	OK	-	-	45	269.99	-
	2	E886642	2606	0.069	0.390	0.006	0.016	NA	-	381	33.40	OK	-	-			-
150 X M X BK X PE	1	A485659	3105	0.065	0.380	0.011	0.019	NA	-	391	31.30	OK	-	-	149	893.34	-

1. All the Visual Finish and Dimensional Characteristics like O.D, Thickness, Weight and Straightness conforms to the specified limits and tolerance
2. It is certified that each Steel Tube is Hydrostatically tested at a Test Pressure of 5MPa for 3 Seconds and found satisfactory
3. Minimum Elongation -12% for Pipes Sizes up to and including 25mm NB and 20% for Pipes sizes over 25mm NB up to and including 150mm NB

Prepared by :

Remarks :-

AUTHORISED SIGNATORY
JINDAL PIPES LTD

For KUMAR ELECTRICALS

Partner

Format No. : SBPIL/QC/F-20, Rev. 00

SHRI BAJRANG POWER AND ISPAT LTD.
SELECT. STRONGER THAN STEEL.

SHRI BAJRANG POWER AND ISPAT LTD.

ERW PIPE DIVISION - TILDA

Kh. No. 521/44, Village- Tandwa, Dharsiwa-Tilda Road, Tehsil- Tilda, Raipur (C.G.), 493116, India

MATERIAL TEST CERTIFICATE (AS PER EN 10204 TYPE 3.1/ ~~3.2~~)

IS 1239(Pt.1)

CM/L-5900067612

PO No. /INV No. : SITGP/2122/01738	MTC No. : SBPIL/MTC/21/02502	Date : 09.12.2021	Vehicle No. : RJ39GA3791
Specification : IS 1239 : 2004	Class : HEAVY		

Customer's Name & Address : M/s- PIPE CORPORATION PVT LTD
NO 6/3,4TH CROSS LALBAGH ROAD K.S. GARDEN BANGLORE

Consignment's Name & Address :- M/s- PIPE CORPORATION PVT LTD
NO 6/3,4TH CROSS LALBAGH ROAD K.S. GARDEN BANGLORE

Manufacturing Process : ERW /HFIW (Electric Resistance Welded / High Frequency Induction Welded)

Size (mm)	Bundle No./ ~~Batch No.~~	Heat No.	Total Pcs	Total Weight (MT)	CHEMICAL ANALYSIS (% Max)					MECHANICAL PROPERTIES (Min)		
					C	Mn	S	P	CE	Yield Strength (MPa)	Tensile Strength (MPa)	% EL
				Min.	-	-	-	-	-	-	320	20
				Max.	0.1600	1.2000	0.0400	0.0400	-	-	-	-
100NB LIGHT	GP112101586	T51962	37	4.560	0.0537	0.3637	0.0058	0.0186	0.1143	316	408	27.5
100NB LIGHT	GP112101664	T51962	37		0.0537	0.3637	0.0058	0.0186	0.1143	316	408	27.5
100NB LIGHT	GP112101557	T51962	7		0.0537	0.3637	0.0058	0.0186	0.1143	316	408	27.5
20NB MEDIUM	GP112103073	21D6512	300	5.140	0.0450	0.3600	0.0090	0.0180	0.1050	294	381	23.5
20NB MEDIUM	GP112103251	21D6512	300		0.0450	0.3600	0.0090	0.0180	0.1050	294	381	23.5
25NB MEDIUM	GP102103442	6323/5	153	4.000	0.1132	0.4894	0.0266	0.0347	0.1948	320	370	24.0
25NB MEDIUM	GP102103396	6323/5	153		0.1132	0.4894	0.0266	0.0347	0.1948	320	370	24.0
TOTAL			987	13.700								

Flattening Test	Bend Test	Hydrostatic Test	Eddy Current Test	Drift Expansion Test
OK	OK	OK	OK	NA

We certifiy that the material described fully conforms to IS 1239(Pt.1):2004 Chemical composition and mechanical properties of the product, as tested in accordance with the Scheme of Testing and Inspection contained in the
BIS Certification Marks Licence No.CM/L - 5900067612 are as indicated against each order no.

BRAND NAME

GOEL PIPES

SHRI BAJRANG POWER & ISPAT LTD. TILDA

AUTHORISED SIGNATURY
PRAVEEN KUMAR
HEAD QA/QC-PIPE DIVISION

For KUMAR ELECTRICALS

Partner

APL APOLLO TUBES LTD.,UNIT-II,HOSUR

Manufacturer of : ERW GALVANIZED & BLACK STEEL TUBES & PIPES & HOLLOW SECTIONS

IS : 3601

CML/3323443

Format No:F/QA-15
Rev No:01
Issue Date:01/09/10

No. 332-338,Alur, Perandapalli-Po,Hosur - 635109 (TN) INDIA , Email : hosur@aplapollo.com Website : www.aplapollo.com

MILL TEST CERTIFICATE FOR STEEL TUBES FOR GENERAL AND MECHANICAL ENGG. PURPOSES

M/S.....

Test certificate No.APL/QA -.....2020-21/1832
Certificate Date....18/10/2020
Invoice No...2002008975

We certify that material described below fully confirms to **IS 3601: 2006** Chemical composition & Mechanical properties of the products tested in accordance with the scheme of testing and inspection contained in BIS certification mark license No. **CM/L 3323443** as indicate against each order No. etc

(Please refer to IS 3601 :2006 for detail of specification requirements)

TEST RESULTS

Order No.	Size & Thickness mm	Type/Grade	Cast No/Heat No.	Batch No./Coil No.	Quantity (Mt.)	CHEMICAL COMPOSITION		MECHANICAL PROPERTIES				GALVANIZING		Remarks
						S% (0.040% max.)	P% (0.040%max.)	Yield Strength Mpa (210 Mpa Min.)	Tensile Strength Mpa(330 Mpa Min)	Elongation % (Size ≤ 33.70mm -12% & Size ≥33.70mm-20%)	Flattening/ Bend test	Zinc coating weight g/m² (Min- 360 g/m²)	Uniformity	
	33.70X2.00X6000	BLK-WT-210/PE	A446818	2GI6380	7.500	0.008	0.020	345	394	33%	PASS	NA	NA	
	48.30X2.00X6000	BLK-WT-210/PE	C448791	20113820	5.220	0.011	0.016	359	396	32%	PASS	NA	NA	
	48.30X1.60X6000	GI-WT-210/SWS	D836998	20641780	3.900	0.008	0.012	337	391	34%	PASS	402	PASS	
	60.30X2.00X6000	GI-WT-210/SWS	D836627	20112368	5.240	0.009	0.012	353	401	33%	PASS	396	PASS	

This is to certify that dimensional characteristic (outside diameter / thickness / straightness / length / end condition) and workmanship confirms the requirement of IS 3601 : 2006

SHIPPING ADVICE NO :

WAGON NO :

TRUCK NO... TN34R2650

SIGNATURE OF AUTHORISED SIGNATORY
DESIGNATION - AGM Q.A.
For APL APOLLO TUBES LTD

For KUMAR ELECTRICALS

Partner

PURVA

Purva Metal Sections
Private Limited (An ISO-9001:2008 Company)
Manufacturers of Quality Steel Pipes and Tubes

Regd. Office: No.193, "Shiv Sadan" 4th Floor,
Opp to NCC Maple Apartments, Near Royal Enfield Bullet Showroom,
Outer Ring Road, B.Narayanapura,
Bangalore – 560 016. CIN: U72900KA2000PTC027944

Factory: Sy.No.26/1, 26/2, Chickakunthuru Village, Sy.No.52, 53, Kodaginabele village, Off Malur – Bangarpet Road,
Near Byatrayanahalli Railway Station, Malur – 563130. Ph:08151 – 238883, 84, 85 | Email: Lkpurva@gmail.com

TEST CERTIFICATE FOR MILD STEEL TUBES & PIPES (BLACK PLAIN ENDED)

TUBE Manufacturing Process: ERW / HFIW (Electric Resistance welded / High Frequency Induction Welded)

Buyer Details :	Pipe Corporation Private Limited	TC Number	960	Date	19-08-2020
# 6/3, 4th Cross, Lalbagh Road,K.S.Garden,		Invoice Number	14383	Date	13-03-2020
Bangalore - 560 027.		Vehicle Number	KA01AE4083		

Test Results

SL. No.	Size & Thickness	Shape	Batch No.	Coil Number	Quantity in Kgs	Chemical Composition (Max)					Mechanical Properties(Min)			Other Tests | Parameters	Remarks
						C	Mn	S	P	CE	UTS	YS	Elongation %	Straightness | Twist Dimensions | Weight Bend | NDT	
1	150 NB X 2.00 mm	CHS	TM2 - 697	7654	912 Kgs	0.0560	0.3600	0.0100	0.0160	-	389	320	43%	PASS	
2	127.0 X 4.00 mm	CHS	TM2 - 913	5958	1035 Kgs	0.0350	0.1720	0.0070	0.0100	-	356	284	42%	PASS	
3	127.0 X 5.00 mm	CHS	TM2 - 224	6775	2025 Kgs	0.0530	0.3510	0.0086	0.0110	-	370	305	43%	PASS	
4	100 NB X 3.20 mm	CHS	TM2 - 127	6485	1085 Kgs	0.0520	0.4000	0.0150	0.0200	-	382	346	41%	PASS	
5	150 NB X 2.00 mm	CHS	TM2 - 697	7654	193 Kgs	0.0560	0.3600	0.0100	0.0160	-	389	320	43%	PASS	

Chemical Composition (Max)						Mechanical Properties(Min)			
Grade	C	Mn	S	P	CE	Grade	UTS	YS	Elongation
YST 210	0.100	0.600	0.040	0.040		YST 210	330	210	20%
YST 240	0.160	1.200	0.040	0.040		YST 240	410	240	17%
YST 310	0.200	1.300	0.040	0.040	0.45	YST 310	450	310	14%

For Purva Metal Sections Pvt. Ltd.
Sy. No. 26/1 & 26/2, Chickakunthuru Village,
Sy. No. 52 & 53, Kodaginabele Village,
Malur - Bangarpet Road, Araleri Post,
Malur Taluk - 563 130, Kolar District.

For KUMAR ELECTRICALS

Partner

JINDAL PIPES LIMITED

Manufacturer's Test Certificate

TRADE MARK ☆ JINDAL STAR

Plot No. 30, Institutional Sector-44
Gurgaon - 122002, Haryana (India)
Phone : 91-124-4624000, 2574325 / 26, 2574620 / 21
Fax : 91-124-2574327

ISO 9001 BUREAU VERITAS Certification — Excluding Design

REV. NO. : 001
Q.C.F. NO. : 30A

M/s.	Specification IS:1239(PT–I)_2004	Certificate No. : QC/20026/22/AD
PIPE CORPORATION PRIVATE LIMITED **6/3, 4TH CROSS, LALBAGH ROAD,** **K.S. GARDEN,** **BANGALORE-560027**	Manufacturing Process : E.R.W.	Date : 10/04/2022 Challan No. : 403222300099 Date : 10/04/2022
P.O. No.		W.O. No.

We certify that the material described below fully confirms to IS:1239(PT – I)_2004 Chemical Composition & Mechanical Properties of Product tested in accordance with Scheme of Testing & Inspection contained in the BIS Licence No. CM/L – 6442163

Description MS ERW PIPES IN LENGTH OF 5.01 – 6.20 MTRs CONFORMING TO IS:1239(PT – I)_2004

SIZE	S.NO.	CAST NO.	LOT NO.	CHEMICAL COMPOSITION					MECHANICAL PROPERTIES			FLATT-ENING/ BEND TEST	ZINC COATING		MATERIAL QUANTITY		Drift Test
				Max. C%	Max. Mn%	Max. S%	Max. P%	CE%	Min. Y.S. MPa	Min. T.S. MPa	Min. %EL		WEIGHT Gms./m²	Uniformity	No. of Pipes	Meters	
				0.200	*1.300*	*0.040*	*0.040*			*320*	*12/20*						
150 X M X BK X PE	1	A485293	3023	0.055	0.380	0.012	0.014	NA	-	378	33.20	OK	-	-	151	905.26	-
125 X M X BK X PE	1	C465540	793	0.059	0.350	0.015	0.014	NA	-	368	24.50	OK	-	-	80	479.81	-

1. All the Visual Finish and Dimensional Characteristics like O.D, Thickness, Weight and Straightness conforms to the specified limits and tolerance
2. It is certified that each Steel Tube is Hydrostatically tested at a Test Pressure of 5MPa for 3 Seconds and found satisfactory
3. Minimum Elongation -12% for Pipes Sizes up to and including 25mm NB and 20% for Pipes sizes over 25mm NB up to and including 150mm NB

Prepared by :

AUTHORISED SIGNATORY
JINDAL PIPES LTD.
Near Sultanpur Village
Sandur Taluk, Dist Bellary,
Karnataka, India. Pin - 583115
Ph : +91 7996853483

Remarks :-

1. This T.C. is valid for 4 month from the date of issue subject for further revalidation
2. Look for ☆ JINDAL STAR Trade mark on our Products.
3. Witnessed by :

For KUMAR ELECTRICALS

Partner